

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
14 April 2005 (14.04.2005)

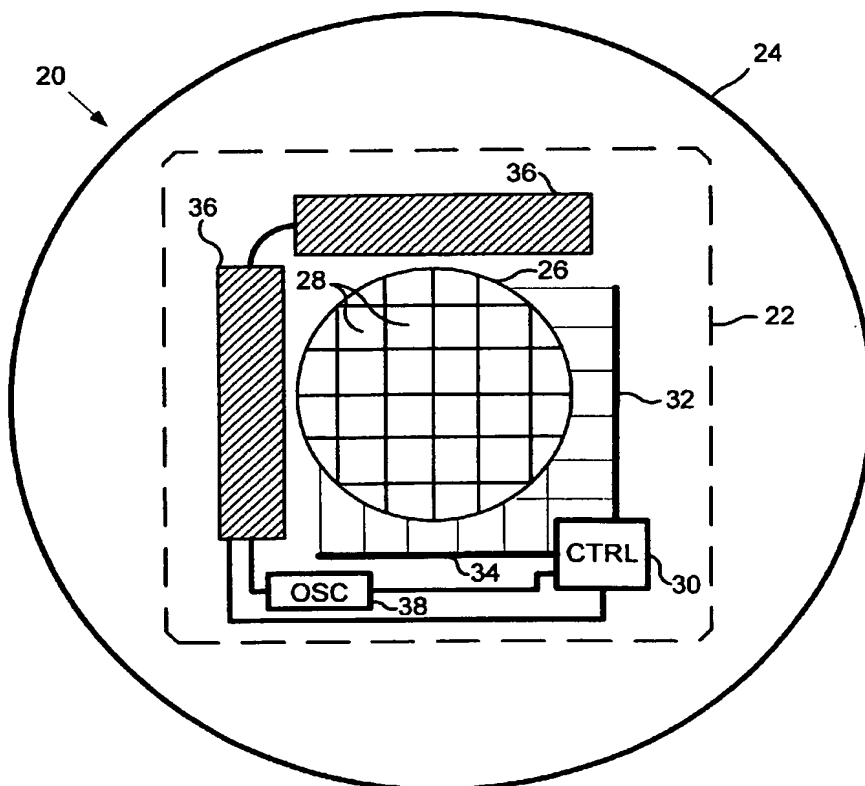
PCT

(10) International Publication Number
WO 2005/033782 A3

- (51) International Patent Classification⁷: **G02C 7/08**,
G02B 3/00
- (21) International Application Number:
PCT/IL2004/000786
- (22) International Filing Date: 30 August 2004 (30.08.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/507,940 3 October 2003 (03.10.2003) US
60/543,567 12 February 2004 (12.02.2004) US
60/582,552 25 June 2004 (25.06.2004) US
- (71) Applicant (for all designated States except US): **INVISIA LTD.** [IL/IL]; Attention: Micha Kaufman, P.O.Box 7202, 31071 Haifa (IL).
- (72) Inventors; and
(75) Inventors/Applicants (for US only): **KAUFMAN, Micha** [IL/IL]; 31 Rachel Street, 34402 Haifa (IL). **KAUFMAN, Kalman** [IL/IL]; 13 Havazelet Street, 38900 Caesarea (IL).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

[Continued on next page]

(54) Title: MULTIFOCAL LENS



(57) Abstract: Apparatus for enhancing vision of a user includes a focal modulation device (22), which is adapted to focus light from objects in a field of view of the user onto the retina while alternating between at least first and second focal states that are characterized by different, respective first and second focal depths, at a rate in excess of a flicker-fusion frequency of the user.



European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(88) Date of publication of the international search report:
21 July 2005

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.